

# Owner's Manual with Installation Instructions

## Banks Monster<sup>®</sup> Exhaust System

2003-2007 Ford Power Stroke 6.0L  
Turbo-Diesel F450/F550 Trucks, Cab & Chassis

THIS MANUAL IS FOR USE WITH SYSTEMS 47273-47292

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# General Installation Practices

Dear Customer,

If you have any questions concerning the installation of your Banks Power System, please call our Technical Service Hotline at (888) 839-2700 between 7:00 am and 5:00 pm (PT). If you have any questions relating to shipping or billing, please contact our Customer Service Department at (888) 839-5600.

Thank you.

1. Before starting work, familiarize yourself with the installation procedure by reading all of the instructions.

2. The exploded view (Figure 1, pages 4-5) provides only general guidance. Refer to each step and section diagram in this manual for proper instruction.

3. Throughout this manual, the left side of the vehicle refers to the driver's side, and the right side to the passenger's side.

4. Disconnect the negative (ground) cable from the battery (or batteries, if there are two) before beginning work.

5. Route and tie wires and hoses a minimum of 6" away from exhaust heat, moving parts and sharp edges. Clearance of 8" or more is recommended where possible.

6. When raising the vehicle, support it on properly weight-rated safety stands, ramps or a commercial hoist. Follow the manufacturer's safety precautions. Take care to balance the vehicle to prevent it from slipping or falling. When using ramps, be sure the front wheels are centered squarely on the topsides. When raising the front

of the vehicle, put the transmission in park (automatic) or reverse (manual), set the parking brake, and block the rear wheels. When raising the back of the vehicle, be sure the vehicle is on level ground and the front wheels are blocked securely. Caution! Do not use floor jacks to support the vehicle while working under it. Do not raise the vehicle onto concrete blocks, masonry or any other item not intended specifically for this use.

7. During installation, keep the work area clean. Do not allow anything to be dropped into intake, exhaust, or lubrication system components while performing the installation, as foreign objects will cause immediate engine damage upon start-up.

## Tools Required:

- 1/2" and 3/8" drive ratchets with inch and metric sockets and 1/2" and 3/8" drive extension
- Inch and metric combination or open-end wrenches
- Standard screwdriver
- Clean shop towels or rags
- Pry-bar
- Reciprocating saw

## Highly recommended tools and supplies:

- Inch-pound and foot-pound torque wrenches
- Penetrating oil or light lubricant spray
- Transmission jack (manual transmission)

# Monster Exhaust System Installation

1. Disconnect the negative (ground) cable from the battery (if there is more than one battery, disconnect both negative cables). Secure the cable so it cannot accidentally come in contact with the post.

2. Raise the vehicle and support it securely with properly weight-rated safety stands, ramps or a commercial hoist. Take care to balance the vehicle to prevent it from slipping or falling. When using ramps, be sure the wheels are centered squarely on the topsides. Place the transmission in park (automatic) or reverse (manual), set the parking brake and securely block the wheels that are on the ground. **CAUTION: DO NOT WORK UNDER ANY VEHICLE SUPPORTED ONLY BY A JACK. SEVERE INJURY MAY RESULT.**

**WARNING!** The following step may require the use of a torch and/or saw. Proper safety equipment should be used. Failure to use proper safety equipment may result in severe injury.

3. From under the vehicle, remove the factory exhaust system from the catalytic converter back. Starting at the rear of the vehicle, remove each component by either cutting through the pipe near the clamps or by removing the clamps and heating the joints with an oxy-acetylene torch to allow crimped pipes to separate. **DO NOT CUT OR DAMAGE CATALYTIC CONVERTER TUBING DURING THE REMOVAL PROCESS.** To assist in removal, the T.O.P. should be cut before the resonator if it is going to be replaced. Remove the hanger pins from the rubber hangers with a pry bar. (Spray lubricant will ease hanger removal.

4. Remove the two (2) nuts attaching the turbine outlet pipe (T.O.P.) to the

catalytic converter inlet. Loosen and remove the band clamp that attaches the rear intermediate pipe to the catalytic converter outlet. Remove the catalytic converter assembly from the vehicle. Remove the band-clamp that attaches the T.O.P. to the turbocharger and remove the factory T.O.P. from the vehicle. Retain V-band clamp for re-assembly.

Note: To assist in T.O.P. removal, remove the rear engine hoist hook by removing the two (2) Hex screws and remove the valve cover heatshield. The dipstick tube may also be removed or slightly bent to allow for T.O.P. removal/installation. Retain all hardware and parts for reassembly.

For Manual Transmissions only: the transmission will need to be lowered to allow for removal and installation of the T.O.P. Using a Transmission Jack, support the rear of the transmission to allow working room for the T.O.P. and remove the rear transmission mount and crossmember. Remove the Front drive shaft support bracket from the cab. Lower the transmission 4-6" and remove the factory T.O.P. Install the Banks T.O.P. Raise the transmission and reinstall drive shaft bracket, transmission crossmember and rear transmission mount. Refer to vehicles owners manual for factory Torque Specifications.

5. Loosely place the factory V-band clamp on the Banks T.O.P. Install the Banks T.O.P. to the turbine housing. Loosely snug the V-band clamp assuring the T.O.P. is aligned properly.

Note: Reinstall the engine hoist hook and valve cover heat shield if previously removed.

6. The catalytic converter inlet will need to be trimmed to accommodate the Banks exhaust system. Be careful

Figure 1

# General Assembly Diagram

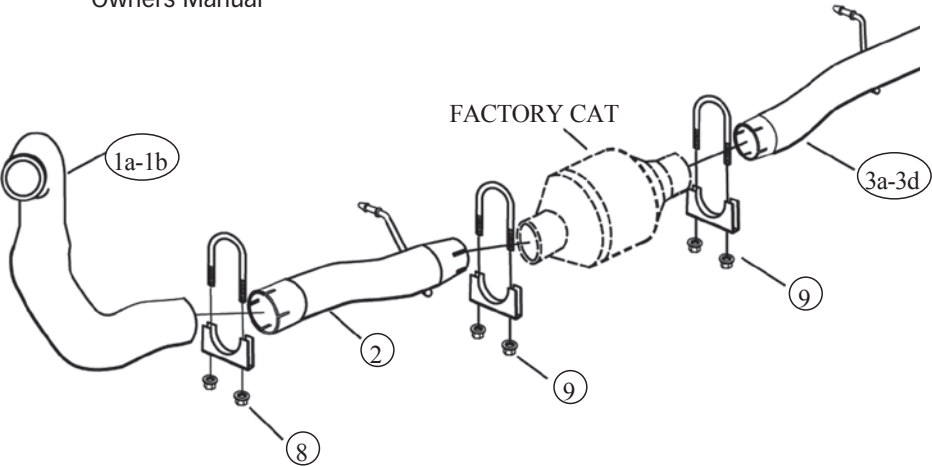
T.O.P System (Build Date 9/03 & Earlier)

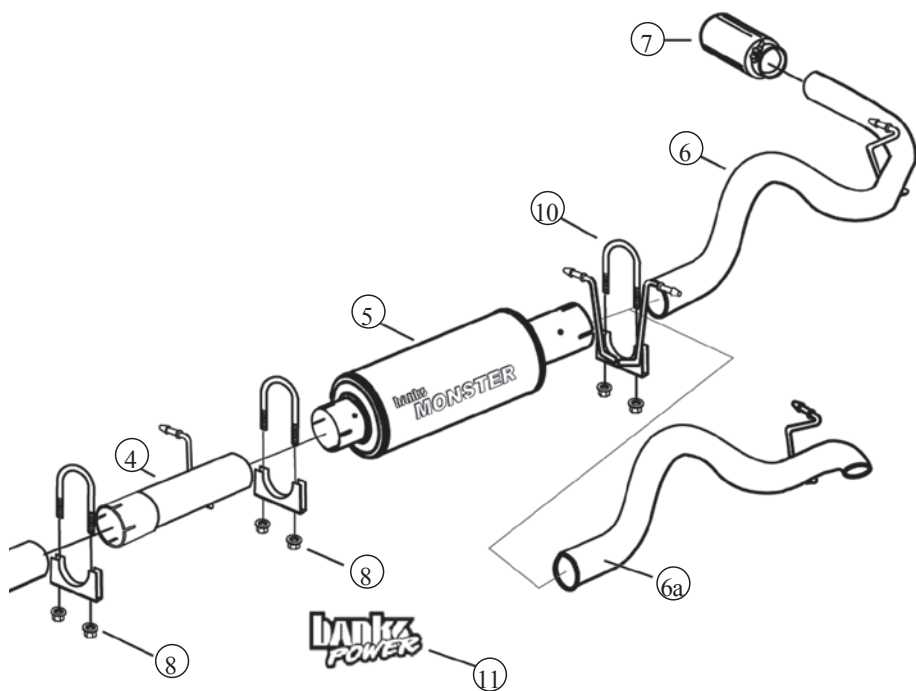
Item#	Description
1a	T.O.P w/Resonator
2	Front Intermediate Pipe
8	Exhaust Clamp, 4"
9	Exhaust Clamp, 3.5"

T.O.P System (Build Date 10/03 & Later)

Item#	Description
1b	T.O.P w/ Out Resonator
2	Front Intermediate Pipe
8	Exhaust Clamp, 4"
9	Exhaust Clamp, 3.5"

Item#	Description
3a	EC 162" WB - Rear Interm. Pipe (Kit 47273)
3b	RC 165" WB - Rear Interm. Pipe (Kit 47274)
3c	CC 176" WB - Rear Interm. Pipe (Kit 47275)
3d	CC 200" WB - Rear Interm. Pipe (Kit 47276)
4	Extension Pipe
5	Monster Muffler
6	Tailpipe
6a	Tailpipe, Turndown
7	Tailpipe Tip
8	Exhaust Clamp, 4"
9	Exhaust Clamp, 3.5"
10	Hanger Clamp, Muffler
11	Banks Power Decal Owners Manual





not to trim an excessive amount of tubing. Be sure to wear proper safety equipment.

**IMPORTANT:** Diesel catalysts may become plugged with soot which can restrict exhaust flow, impeding performance. Inspect the converter by shining a powerful flashlight into the inlet. Observe the light through the other end of the converter. The full circle of the flashlight should be visible without any blockage in the gridwork of the catalyst. If excessive soot is observed, the catalyst may need to be cleaned. **TAKE PRECAUTIONS** to avoid blowing soot toward the work area or where it could be inhaled. **ALWAYS** use breathing protection. Also inspect the catalyst for damage (i.e. chips, bent corners, etc.) to the gridwork. If your catalytic converter is damaged, it may be covered under your vehicle's emissions warranty.

A) With the catalytic converter removed from the vehicle and the headpipe removed from the converter, measure approximately 4" from the weld and mark the location (this location should be before any bend, about 7" rear of the inlet flange). Using a reciprocating saw or equivalent, vertically cut and remove 7" from the converter outlet tubing (see Figure 2).

B) Install the supplied Banks front

intermediate pipe onto the previously installed Banks T.O.P. Loosely install a supplied 4" exhaust clamp onto the forward end of the front intermediate pipe.

C) Install the supplied 3½" clamp onto the outlet of the front intermediate pipe. Place the trimmed catalytic converter onto the previously installed front intermediate pipe. Loosely snug the clamp onto the catalytic converter inlet.

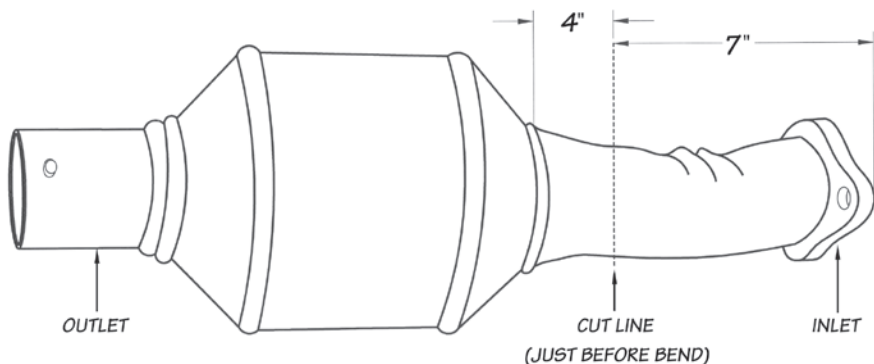
7. Place a supplied 3½" clamp onto the front of the supplied rear intermediate pipe.

Note: Review the Parts List Table on page 8 to verify the rear intermediate pipe P/N.

8. Install the supplied rear intermediate pipe onto the catalytic converter outlet. Be sure the notch and catalytic converter pin are properly aligned. Lightly snug the 3½" clamp onto the front of the intermediate pipe / catalytic converter outlet.

9. Install a 4" clamp onto front the supplied extension pipe. Install the supplied extension pipe onto the outlet of the rear intermediate pipe. Loosely snug the clamp at the connection.

Figure 2



10. Install a 4" exhaust clamp onto the Banks Monster Muffler inlet. Connect the muffler inlet onto the rear of the extension pipe. Install the 4" muffler clamp onto the Monster muffler outlet such that the hanger pins are towards the front of the vehicle. Install the hanger pins into the vehicle's rubber insulators.

11. Route the tailpipe over the rear axle housing and into the muffler outlet. Install the tailpipe hanger pin into the corresponding rubber hanger. Loosely snug the 4" clamp onto the muffler outlet.

12. For Models with storage boxes: Adjust the tailpipe turndown parallel with the ground so that the bumper or storage boxes do not get in the path of the exhaust (see Figure 3).

13. For Models without storage boxes: Install the 5" Monster tailpipe tip on the exhaust. Keep the wrapping on

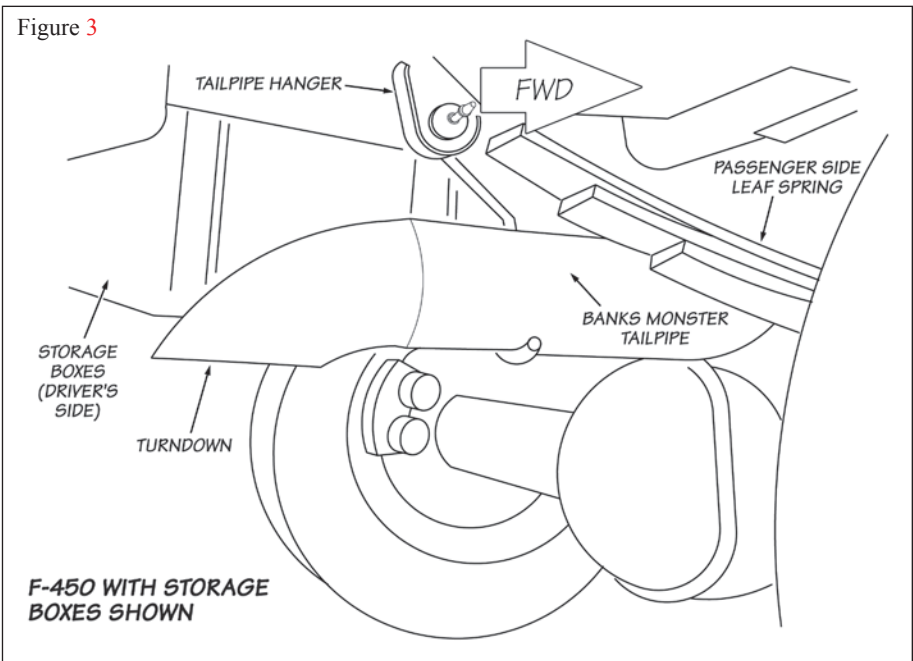
until installation is complete. The tip should be rotated so the clamp nut and drain hole are pointing down. Align the end of the tip with the body line of the truck. Remove the protective covering from the tailpipe tip.

Caution: The protective covering may ignite and burn if not removed prior to running the engine.

14. With everything positioned properly, begin to tighten the clamps starting with the ones closest to the front and working your way back. Torque the exhaust clamps evenly to 35 ft-lbs. Make sure that each slip is fully inserted (+/- 1/4 inch) and that all mount hangers are in the forward position (see Figure 4). Torque V-band clamp on the T.O.P. to 7 ft-lb.

15. Your system includes two "Banks Power" logos designed to complement the Ford badging on your truck. Use

Figure 3



the provided measurements (see Figure 5) to position the logos for a clean factory look.

16. Re-connect negative battery cable(s). Start the engine and listen for exhaust leaks. Tighten the exhaust clamps as necessary. Whenever possible, tack-welding slip connections to prevent disengagement is recommended.

Banks Monster Exhaust installation is now complete.

Figure 4

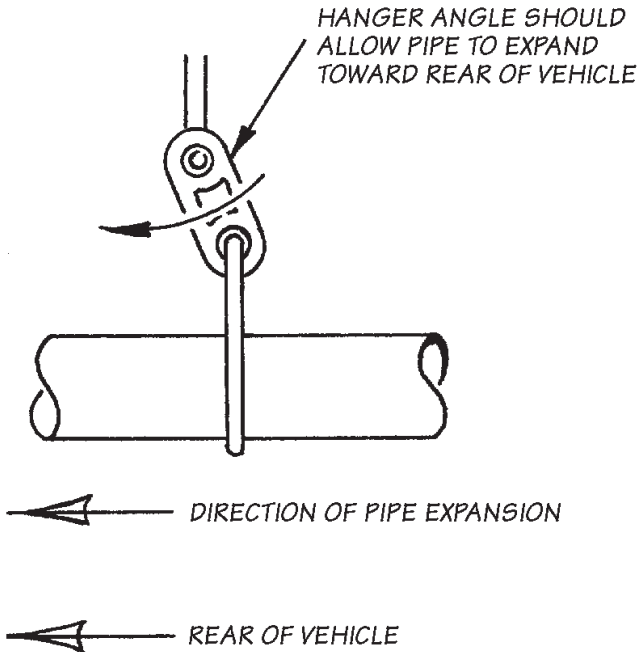
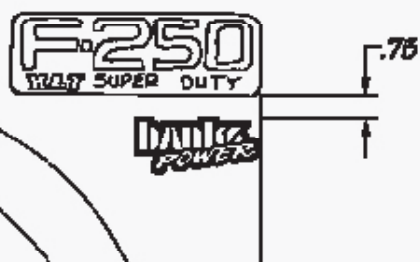




Figure 5

TYPICAL LEFT FENDER



TYPICAL RIGHT FENDER



Parts List—Ford Power Stroke Monster Exhaust

Item#	P/N	Description	T.O.P System (Build Date 9/03 & Earlier)	T.O.P System (Build Date 10/03 & Later)
			48761	48781
1a	53525	T.O.P w/Resonator	1	1
1b	53537	T.O.P w/out Resonator		
2	53526	Front Intermediate Pipe	1	1
8	52470	Exhaust Clamp, 4"	1	1
9	52465	Exhaust Clamp, 3.5"	1	1
	96440	Owners Manual	1	1

Item#	P/N	Description	2003 Models							
			2004-07 Models							
3a	53539	EC 162" WB - Rear Intern. Pipe (Kit 47273)	1	1						
3b	53540	RC 165" WB - Rear Intern. Pipe (Kit 47274)			1					
3c	53538	CC 176" WB - Rear Intern. Pipe (Kit 47275)					1		1	
3d	53543	CC 200" WB - Rear Intern. Pipe (Kit 47276)							1	1
4	53541	Extension Pipe	1	1	1	1	1	1	1	1
5	53800	Monster Muffler	1	1	1	1	1	1	1	1
6	53546	Tailpipe	1		1			1	1	
6a	53547	Tailpipe, Turndown		1		1		1		1
7	52383	Tailpipe Tip	1		1			1		1
8	52470	Exhaust Clamp, 4"	2	2	2	2	2	2	2	2
9	52468	Exhaust Clamp, 3.5"	1	1	1	1	1	1	1	1
10	53544	Hanger Clamp, Muffler	1	1	1	1	1	1	1	1
11	96009	Banks Power Decal	2	2	2	2	2	2	2	2
	96441	Owners Manual	1	1	1	1	1	1	1	1

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